01799

1995/01/00

Global Launch Services Supply and Demand Analysis (TOTAL)

U.S. LAUNCH VEHICLES

Category		1995	1996	1997	1998	1999	2000	2001
Pegasus/Taurus/LLV:	Requirements	10	7	6	2	4	3	2
	Capacity	13	14	16	18 - 22	24-28	30-34	30-34
Delta 2 East Coast:	Requirements	4 (4)	5 (5)	8 (8)	4 (5)	6 (7)	4 (5)	4 (5)
	Capacity	4	8	12	12	12	8	12
Delta 2 West Coast:	Requirements	2 (2)	3 (3)	5 (5)	2 (3)	0 (0)	3 (3)	1 (3)
	Capacity	4	6	6	6	5	4	6
Atlas 1/2/2AS East Coast:	Requirements	10 (10)	7 (7)	6 (6)	2 (2)	3 (4)	3 (4)	0 (2)
	Capacity	8	9	10	10	10	10	10
Atlas 1/2/2AS West Coast:	Requirements	0	0	0	3	1	2	1 (2)
	Capacity	0	1	4	4	4	4	4

NOTE: Only firm and probable requirements are shown for both government and commercial missions. Potential missions in the out-years are not shown. Projected LEO commercial requirements of at least 4 to 5 launches per year from 1997 on are not shown.

Numbers in parentheses represent revised launch projections by DOT for Delta/Atlas taking into account further review of "likely" U.S. Government launches.

Global Launch Services Supply and Demand Analysis

FOREIGN LAUNCH VEHICLES

Category	1995	1996	1997	1998	1999	2000	2001	
Ariane 4: Requirements	14 (12)	8 (10)	5	2	1	?	?	*
Capacity	12	12	12	10	8	8	8	
Ariane 5: Requirements	0	2	1	1	1	3	?	
Capacity	0	4	6	8 to 10	8 to 10	8 to 10	8 to 10	X
Long March 2E/3B: Requirements	6	4 to 5	1	1	1	1	1	
Capacity	6	6	6	6	6	6	6	**
Long March 2C, etc: Requirements	0	0 to 1	0	3	3	0	0	
Capacity	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	
Proton: Requirements	16?	?	?	?	?	?	?	
Capacity	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	***

* Reflects gradual reduction of Ariane 4 capacity

** Maximum theoretical (surge) capacity has been estimated at 7 to 8 GEO launches per year

*** Estimate for nominal capacity using new-built Protons; actual capacity may be higher